## PATENT COOPERATION TREATY REC'D 16 FEB 2006 INTERNATIONAL SEARCHING AUTHORITY EMERY L. TRACY P.O. BOX 1518 BOULDER, CO 80306 WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY (PCT Rule 43bis.1) Date of mailing (day/month/year) Applicant' s or agent' s file reference FOR FURTHER ACTION See paragraph 2 below W002.PCT-16 International application No. International filing date (day/month/year) Priority date (day/month/year) PCT/US05/09977 24 March 2005 (24.03.2005) 25 March 2004 (25.03.2004) International Patent Classification (IPC) or both national classification and IPC IPC(7): E21B 43/32 and US Cl.: 166/263,279,372 Applicant UNIVERSITY OF WYOMING 1. This opinion contains indications relating to the following items: Box No. I Basis of the opinion Box No. II **Priority** Box No. III Non-establishment of opinion with regard to novelty, inventive step and industrial applicability Box No. IV Lack of unity of invention Box No. V Reasoned statement under Rule 43bis.1(a)(i) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement Box No. VI Certain documents cited Box No. VII Certain defects in the international application Box No. VIII Certain observations on the international application 2. FURTHER ACTION If a demand for international preliminary examination is made, this opinion will be considered to be a written opinion of the International Preliminary Examining Authority ("IPEA") except that this does not apply where the applicant chooses an Authority other than this one to be the IPBA and the chosen IPBA has notified the International Bureau under Rule 66.1bis(b) that written opinions of this International Searching Authority will not be so considered. If this opinion is, as provided above, considered to be a written opinion of the IPEA, the applicant is invited to submit to the IPEA a written reply together, where appropriate, with amendments, before the expiration of 3 months from the date of mailing of Form PCT/ISA/220 or before the expiration of 22 months from the priority date, whichever expires later. For further options, see Form PCT/ISA/220. 3. For further details, see notes to Form PCT/ISA/220. Name and mailing address of the ISA/ US Date of completion of this Authorized officer Mail Stop PCT, Attn: ISA/US opinion Commissioner for Patents Zakiya W. Bates

31 January 2006 (31.01.2006) (

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## WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY

International application No.		
POT/11505/00077		

Box N	No. I Basis of this opinion
<b>[</b>	
	regard to the language, this opinion has been established on the basis of:
	the international application in the language in which it was filed
	a translation of the international application into, which is the language of a translation furnished for the purposes of international search (Rules 12.3(a) and 23.1(b)).
2. With claim	regard to any nucleotide and/or amino acid sequence disclosed in the international application and necessary to the ned invention, this opinion has been established on the basis of:
a.	type of material
	a sequence listing
	table(s) related to the sequence listing
ъ.	format of material
	on paper
	in electronic form
c.	time of filing/furnishing
	contained in the international application as filed.
•	filed together with the international application in electronic form.
	furnished subsequently to this Authority for the purposes of search.
	Company to the reaction, to the purposes of scatch.
3.	In addition, in the case that more than one version or copy of a sequence listing and/or table(s) relating thereto has been filed or furnished, the required statements that the information in the subsequent or additional copies is identical to that in the application as filed or does not go beyond the application as filed, as appropriate, were furnished.
4. Additi	onal comments:
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## WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY

International application No. PCT/US05/09977

1. Statement	•		
Novelty (N)	Claims 1-28		Y
	Claims NONE		N
Inventive step (IS)	Claims 1-28		
	Claims NONE		Y
Industrial applicability (IA)	Claims 1-28		Y
	Claims NONE		N
2. Citations and explanations:			
Claims 1-28 meet the criteria set out in PCT Article claimed, including a method for eliminating water njecting precipitants causing surface precipitation nethods of well stimulating including injecting acidalled for in the claims.	block around a well comprising removed	ving the water, injecting	crude oil, and
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